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APPENDIX

Process the transmitted and received audio waveforms: normalize the transmitted and received audio 5 waveforms so that they contain only positive data (b) superimpose/align the normalized waveforms divide the calculated difference data into groups of (C) envelopes, set the envelope width to 25% of the audio CODEC buffer size (an audio packet would be 10 four consecutive envelopes) summarize the enveloped data and determine the data losses and loss rate Shift, alternatively, the transmitted (or received) audio data as follows until the lowest point vertex is determined 15 start Shift=1 WHERE range Shift=4 (to acquire a minimum of five empirical values including the initial data loss value, 0th shift group) shiftGroupSize=defined for CODEC being used WHILE NO Vertex For shift=start Shift to range Shift set shift Increment Direction= $(\text{shiftSize}+(-\text{shift}*(((-1)^{\text{shift}})))$ (b) set shiftSize=shift Increment Direction * shiftGroupSize shift waveform by shiftSize (C) obtain difference by subtracting the (d) transmitted waveform from the received waveform divide the calculated difference data into (e) groups of envelopes, set the envelope width to 25% of the audio CODEC buffer size (an audio packet would be four consecutive envelopes) summarize the enveloped data and determine the 35 (f)data losses and loss rate (g) store data loss rate in array Analyze the collected data loss rate data from the array to 40 find the lowest vertex point If no vertex is identified, then

(a) change the start_Shift and range_Shift for two additional shifts and loss calculation data points:

start Shift=range Shift+1

range_Shift=range Shift+2

Else

Found Vertex - Conclude shifting process

End if

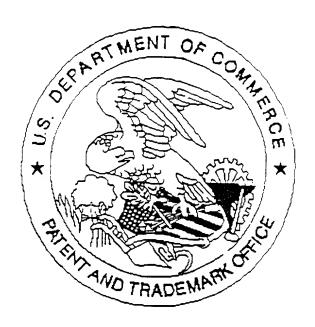
5 End While Loop

Extract the optimum data loss and associated frequency for final result

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